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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/521,829	08/01/2005	Stephen A. Payne	30101.188	2411
21878	7590 12/23/2005		EXAM	INER
KENNEDY COVINGTON LOBDELL & HICKMAN, LLP 214 N. TRYON STREET			KHAN, AMINA S	
	OWER, 47TH FLOOR		ART UNIT	PAPER NUMBER
CHARLOTT	E, NC 28202		1751	

DATE MAILED: 12/23/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	10/521,829	PAYNE, STEPHEN A.	
Office Action Summary	Examiner	Art Unit	
·	Amina Khan	1751	
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet w	th the correspondence address	•
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statut. Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNION 136(a). In no event, however, may a seril will apply and will expire SIX (6) MON te, cause the application to become Al	CATION. eply be timely filed THS from the mailing date of this communication. EANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 01 A 2a) This action is FINAL. 2b) This 3) Since this application is in condition for allowatelessed in accordance with the practice under Disposition of Claims	s action is non-final. ance except for formal mat		
4) ☐ Claim(s) 1-39 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-39 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or Application Papers	or election requirement.		
 9) The specification is objected to by the Examination 10) The drawing(s) filed on is/are: a) accompliant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Example 12 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign 	cepted or b) objected to e drawing(s) be held in abeyaction is required if the drawing examiner. Note the attache	nce. See 37 CFR 1.85(a). (s) is objected to. See 37 CFR 1.121(d). d Office Action or form PTO-152.	·
a) All b) Some * c) None of: 1. Certified copies of the priority document of the priority docum	nts have been received. nts have been received in A ority documents have beer au (PCT Rule 17.2(a)).	application No received in this National Stage	
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date 1/21/2005.	Paper No	Summary (PTO-413) s)/Mail Date informal Patent Application (PTO-152) 	

Art Unit: 1751

DETAILED ACTION

Specification

1. Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The <u>disclosure</u> concerns," "The <u>disclosure</u> defined by this invention," "The <u>disclosure</u> describes," etc.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-4,6,7,13-16,18 and 19 are rejected under 35 U.S.C. 102(e) as being anticipated by Rother et al. (US 2002/0066879).

The prior art of Rother et al. teaches the treatment of leathers with antimicrobial compositions (page 2, paragraph 0050) comprising bactericides, specifically triclosan (page 1, paragraph 0005) and fungicides, specifically di-iodo-methyl p-tolyl sulfone

(page 1, paragraph 0004) which combined make up 10-50% of the composition (page 2, paragraph 0049). Rother teaches that the compositions further comprise 0-20% ionic and/or nonionic emulsifiers (page 2, paragraph 0049). Rother further teaches compositions having 5 to 200 parts by weight bactericide to 1 part by weight fungicide (columns 1 and 2, paragraph 0045), which meets the claimed limitation of 1:50 to about 10:1 fungicide to bactericide. Rother further teaches that the composition be applied in a concentration of 0.1 to 1% based on the quantity of animal hides or leather (page 3, claim 7), which based on the percentage of bactericide and fungicide in the composition and the ratio of bactericide to fungicide meets the claimed limitation of 200-5000 ppm fungicide and 500-10000 ppm bactericide.

The teachings of Rother et al. anticipate the material limitations of the instant claims.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 5 and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rother et al. (US 2002/0066879) in view of Austin (US 5,290,810).

The primary reference of Rother et al. is relied upon as set forth above. Rother does not teach leathers and antimicrobial compositions comprising polyhexamethylene biguanide.

The secondary reference of Austin teaches industrial biocides for the treatment of leather (column 1, lines 4-11) comprising known antimicrobial compounds such as polyhexamethylene biguanide (column 6, lines 22-23). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the leather treatments of Rother by incorporating polyhexamethylene biguanide as taught by Austin because Austin teaches the utility of polyhexamethylene biguanide as an antimicrobial compound for treating leather. It is prima facie obvious to combine the two compositions, each taught for the same purpose, to yield a third composition for that very purpose. *In re Kerkhoven*, 205 USPQ 1069, *In re Pinten*, 173 USPQ 801, and *In re Susi*, 169 USPQ 423 when ingredients are well known and combined for their known properties, the combination is obvious absent unexpected results.

Claims 8-12 and 20-39 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rother et al. (US 2002/0066879) in view of Austin (US 5,290,810) in further view of Pillay (US 6,110,950).

The prior art of Rother and Austin are relied upon as set forth above. The prior art does not teach the methods of application of the antimicrobial composition to leather as claimed in claims 8 and 20-39. Rother also does not teach leather efficacy after 5 washings or the AATCC Test Method 30 Part 3. Rother does teach that customary application methods in leather manufacture for the protection of animal hides against attack and damage by microorganisms may be applied (column 2, paragraph 0050).

Pillay in the analogous art of antimicrobial leather treatments teaches methods of treating leathers with microbicides such as propiconazole to control the growth of Art Unit: 1751

microorganisms on a hide during the tanning process (column 5, lines 37-39). Pillay further teaches that microbicidal compositions may be applied at any stage during a tanning process that includes, but is not limited to, a pickling stage, a chrome-tanning stage, a vegetable-tanning stage, a retanning stage, a dyeing stage, and a fat liquoring stage (column 5, lines 52-59). Pillay does not specifically disclose exhausting the treatment to the leather but in example 1 (page 8) describes a method in which hides are drummed with the compositions until they penetrate the leather, the equivalent of exhausting. It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Rother by incorporating the methods taught by Pillay because Pillay teaches the utility of these methods in providing an antimicrobial finish for leather. Furthermore, Rother invites the inclusion of customary application methods of antimicrobial compositions to protect leather during tanning.

It would also have been obvious to one of ordinary skill in the art that the leathers exhibit acceptable efficacy after 5 washings and have zero growth of microbes after 5 washings when tested in accordance with AATCC Test Method 30 Part III because the leathers were treated with similar compositions and with similar methods. The burden is on the applicant to prove otherwise.

It would also have been obvious to one of ordinary skill in the art to produce products such as clothing, shoes, etc. with the leather since the leathers disclosed by Pillay are cowhide, snakeskin, alligator skin, sheep skin, and the like, materials commonly made into shoes, belts, coats, handbags, etc. The burden is on the applicant to prove otherwise.

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Any inquiry concerning this communication or earlier communications from the

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examiner should be directed to Amina Khan whose telephone number is (571) 272-

5573. The examiner can normally be reached on Monday through Friday, 8:30-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Yogendra Gupta can be reached on (571) 272-1316. The fax phone

number for the organization where this application or proceeding is assigned is 571-

273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

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Status information for unpublished applications is available through Private PAIR only.

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you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

Amina Khan, PhD Patent Examiner

Unine U

December 21,2005

MARGARET EINSMANN

PRIMARY EXAMINER

GROUP 1100